Plastics, Rubber and Composites Processing and Applications **20** (1993) 312–314

Plastics, Rubber and Composites Processing and Applications

CONTENTS OF VOLUME 20

Number 1

Guest Editorial
The missing link — solving the problems of use and abuse 1
J. COLLINS (UK)

Anisotropy in injection-moulded styrene-butadiene rubbers. Part 1 3
H. LAVEBRATT & B. STENBERG (Sweden)

Anisotropy in injection-moulded styrene-butadiene rubbers.
Part 2: Discs delaminated by water-jet cutting technique 15
H. LAVEBRATT & B. STENBERG (Sweden)

Characterisation of synchronous belt properties 25
K. W. DALGARNO, A. J. DAY & T. H. C. CHILDS (UK)

Self-crosslinkable blends of poly(vinyl chloride) and carboxylated nitrile rubber . 35
P. RAMESH, D. KHASTGIR & S. K. DE (India)

Optimum design of fishtail die for flat film extrusion 43
Y. WANG, C.-C. HUANG & S.-Y. TSAY (Taiwan)

Failure properties of carbon black filled ethylene vinyl acetate rubber . . 51
K. MUKHOPADHYAY & S. K. DE (India)

Forthcoming Meetings 61

Number 2

Guest Editorial
The value of 'FEA' to the rubber industry 63
P. S. OUBRIDGE (UK)

Process modelling and design for resin transfer moulding 67
C. D. RUDD, E. V. RICE, L. J. BULMER & A. C. LONG (UK)

Crystallization and mechanical properties of a thermoplastic PET reinforced with unidirectional glass fibres 77
C. GAUTHIER, J. CHAUCHARD, B. CHABERT, J. P. TROTIGNON, G. BATTEGAY & V. LAMBLIN (France)

Engineering methods for evaluation of edge effects 83
Y. M. TARNOPOL'SKII (Latvia) & Y. Y. PEROV (Russia)

Plastics, Rubber and Composites Processing and Applications 0959-8111/93/$06.00 © 1993 The Institute of Materials, England. Printed in Great Britain

Rheological behaviour of short sisal fibre reinforced natural rubber composites. 93
S. VARGHESE, B. KURIAKOSE, S. THOMAS, C. K. PREMALATHA & A. T. KOSHY (India)

Theoretical study of the knife coating process: The effect of the contact angle of the knife on the knife coating 101
J. K. KIM & B. R. MIN (South Korea)

Short carbon fiber filled polychloroprene composites: Electrical conduction . 107
P. B. JANA (India)

Forthcoming Meetings 119

Number 3

The spherulitic and lamellar morphology of titanium dioxide-filled polyolefins . 121
M. BURKE, R. J. YOUNG & J. L. STANFORD (UK)

Flow-aberrations and weld lines in glass-fibre reinforced thermoplastic injection mouldings 137
M. AKAY & D. BARKLEY (UK)

Electrical properties and noise characteristics of carbon black-filled high-density polyethylene 151
P. BENGTSSON & J. KUBÁT (Sweden)

Factors affecting tear strength at high strain rate 159
A. C.-Y. WONG (Hong Kong)

On the morphology of compression-moulded isotactic polypropylene filled with talc 165
M. ALONSO, A. GONZALEZ, J. A. DE SAJA & A. REQUEJO (Spain)

Jute fibre-reinforced polyester composites: Effect of different types and degrees of chemical modification of jute on performance of the composites . . . 171
P. GHOSH & P. K. GANGULY (India)

Mechanism of the vulcanization of *cis*-1, 4-polyisoprene with mixtures of bis(diisopropyl) thiophosphoryl disulphide and dithiodimorpholine. . . 179
L. PYSKŁO (Poland)

Forthcoming Meetings 185

Number 4

Guest Editorial
Modelling structural relaxation in glass 187
J. M. HUTCHINSON (UK)

Advanced extrusion processes for polyethylenes. 193
K. KRUMM (Germany)

Filling patterns and transient flow in branched runner systems: Computer simulation and experiment 201
J. F. T. PITTMAN, H. MAHMOUDZADEH & I. SULIMAN (UK)

Raman spectroscopy of welds in polyethylene 211
I. WESLEY, B. MAGNAUDEIX, D. HODGSON, P. HENDRA, P. HART, S. STEVENS & N. JENKINS (UK)

Latex rubber modified polystyrene as a model system for HIPS: Effect of rubber particle parameters 219
D. G. COOK, A. PLUMTREE & A. RUDIN (Canada)

Ductile fracture of polyester films 229
S. HASHEMI (UK)

Wear of natural rubber and styrene butadiene rubber vulcanizates at elevated temperatures 239
P. THAVAMANI & A. K. BHOWMICK (India)

In plane and transverse damping characteristics of short-fibre-reinforced bromobutyl rubber composites 249
J. N. DAS, N. G. NAIR & N. SUBRAMANIAN (India)

Forthcoming Meetings 257

Number 5

Guest Editorial
Chemical recycling — back to feedstock 259
A. REININK (Netherlands)

Fibre-induced acceleration of matrix degradation in thermoplastic composites . 265
J. L. THOMASON (Netherlands)

Viscoelastic and structural study of repeatedly extruded polyethylene melts . 271
P. PARDON, P. J. HENDRA & H. A. WILLIS (UK)

Dynamic modelling of the preform reheating stage in injection blow moulding . 275
R. W. DIRADDO & A. GARCIA-REJON (Canada)

Finite element analysis in the design of rubber components 293
P. M. T. FURSDON (UK)

Non-uniformities in high density polyethylene films: Correlation between thickness, orientation factors and recrystallization behaviour on annealing . 299
L. L. GARDNER & W. J. McGILL (South Africa)

Comparative study of various antioxidants for HTPB prepolymer . . . 305
J. S. CHHABRA, J. ATHAR, J. P. AGRAWAL & H. SINGH (India)

Forthcoming Meetings 311